



Visual Studio 2008: Windows Presentation Foundation

Days: 3
Format: Instructor-Led
Class Code: 6460
Certification Exams: None
Certification Track: None

Recommended Course Sequence

Knowledge of prerequisites
noted below.

*Course content is subject to change
without notice.*

Course Description:

This three-day instructor-led course provides students with the knowledge and skills to build and configure a Windows Presentation Foundation (WPF) solution.

Target Student:

This course is intended for application developers who know how to build Windows Forms applications, custom user controls in .NET Framework 2.0 and how to use the common features of the base class library. They do not have to understand concepts such as advanced UI threading and asynchronous programming, building custom controls from scratch or using (GDI). They also do not need experience building add-ins or custom designers in Microsoft Visual Studio development system.

Prerequisites:

Before attending this course, students should have either:

- One year of experience programming in .NET
- Taken course: 4994-Introduction to Programming Microsoft .NET Applications with Microsoft Visual Studio 2005 and 2008

At Course Completion:

After completing this course, students will be able to:

- Create a WPF application.
- Build a user interface in a WPF application.
- Customize the appearance of a WPF application.
- Bind user interface controls to data sources.
- Bind user interface controls to collections.
- Create new controls in a WPF application.
- Manage documents in a WPF application.
- Add graphics and multimedia support to a WPF application.
- Configure and deploy WPF applications.

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Course Outline

Module 1: Creating an Application by Using WPF

This module explains how to build a WPF application.

Lessons
<ul style="list-style-type: none">■ Overview of WPF■ Creating a Simple WPF Application■ Handling Events and Commands■ Navigating Between Pages
Lab
<ul style="list-style-type: none">■ Creating a Stand-Alone WPF Application■ Handling Events and Commands■ Navigating Between Pages■ Creating an XBAP Application

Module 2: Building User Interfaces

This module explains how to build a user interface in a WPF application.

Lessons
<ul style="list-style-type: none">■ Defining Page Layout■ Building User Interfaces by Using Content Controls■ Building User Interfaces by Using Items Controls■ Hosting Windows Forms Controls
Lab
<ul style="list-style-type: none">■ Defining Page Layout and Adding Content■ Enhancing the User Interface by Using Items Controls■ Integrating Windows Forms Controls

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Module 3: Customizing Appearance

This module explains how to customize the appearance of a WPF application.

Lessons
<ul style="list-style-type: none">■ Sharing Logical Resources in an Application■ Creating Consistent User Interfaces by Using Styles■ Changing the Appearance of Controls by Using Control Templates■ Enhancing User Interfaces by Using Triggers and Animations
Lab
<ul style="list-style-type: none">■ Sharing Logical Resources in an Application■ Creating Consistent User Interfaces by Using Styles■ Changing the Appearance of Controls by Using Control Templates■ Enhancing the User Interface by Using Triggers and Animations

Module 4: Data Binding

This module explains how to bind user interface controls to data sources.

Lessons
<ul style="list-style-type: none">■ Overview of Data Binding■ Creating a Data Binding■ Implementing Property Change Notification■ Converting Data■ Validating Data
Lab
<ul style="list-style-type: none">■ Creating Data Bindings■ Implementing Property Change Notification■ Converting Data■ Validating Data

Module 5: Data Binding to Collections

This module explains how to bind user interface controls to collections.

Lessons
<ul style="list-style-type: none">■ Binding to Collections of Objects■ Presenting Data by Using Collection Views■ Presenting Data by Using Data Templates
Lab
<ul style="list-style-type: none">■ Presenting Data by Using Collection Views■ Presenting Data by Using Data Templates■ Tracking Workflows

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Module 6: Creating New Controls

This module explains how to create new controls in a WPF application.

Lessons
<ul style="list-style-type: none">■ Overview of Control Authoring■ Creating Controls
Lab
<ul style="list-style-type: none">■ Implementing a Custom Control

Module 7: Managing Documents

This module explains how to manage documents in a WPF application.

Lessons
<ul style="list-style-type: none">■ Creating and Viewing Flow Documents■ Creating and Viewing Fixed Documents■ Packaging Documents■ Printing Documents
Lab
<ul style="list-style-type: none">■ Creating and Displaying Flow Documents■ Printing Documents■ Creating a Signing XPS Documents

Module 8: Graphics and Multimedia








This module explains how to add graphics and multimedia support to a WPF application.

Lessons
<ul style="list-style-type: none">■ Creating 2-D graphics■ Displaying Images■ Creating 3-D Graphics■ Manipulating the 3-D Environment■ Adding Multimedia
Lab
<ul style="list-style-type: none">■ Displaying 2-D graphics■ Displaying Images■ Displaying 3-D Graphics■ Playing Video Clips

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Module 9: Configuring and Deploying Applications in Windows Presentation Foundation

This module explains how to configure and deploy WPF applications

Lessons	
	Deployment Options
	Deploying a Stand-Alone WPF Application
	Deploying an XBAP Application
	Configuring Manifest Settings
Lab	
	Deploying a Stand-Alone WPF Application
	Updating a Deployment Manifests
	Deploying an XBAP Application